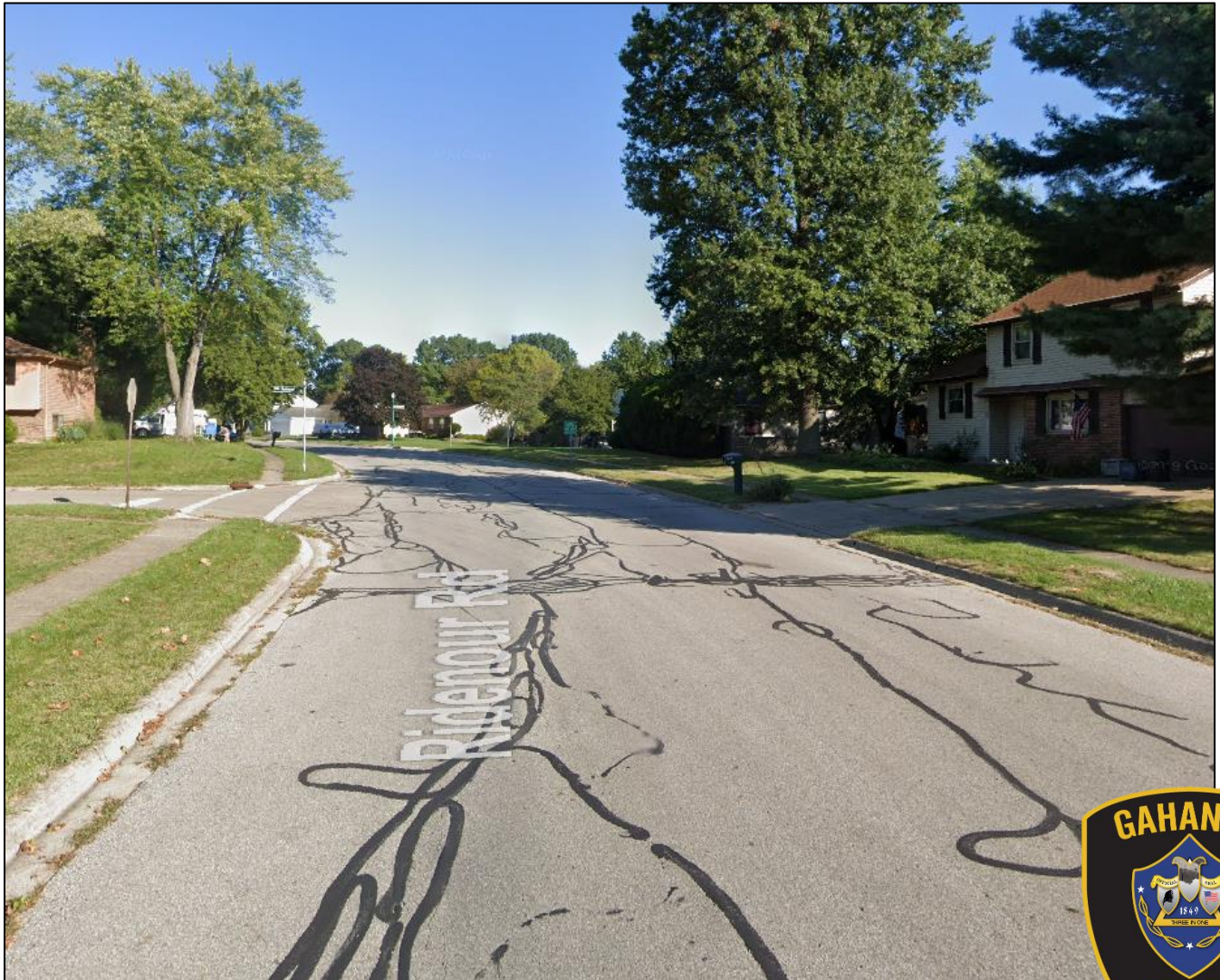


Gahanna Division of Police

Jeffrey B. Spence, Chief of Police



Field Services Subdivision

Traffic Survey

Ridenour Road 09-13-21 to 10-05-21

460 Rocky Fork Blvd.
Gahanna, Ohio 43230
614-342-4240
WWW.GAHANNA.GOV

Survey Device: Speed Monitoring and Notification Device (SMND) # 1102

Survey Operator: Lt. Ethan Moffitt # L-58

Device Location: Ridenour Road near Camrose Court

Device Direction: Facing northwest bound traffic (going towards N. Stygler Road)

Speed Limit: 25 MPH

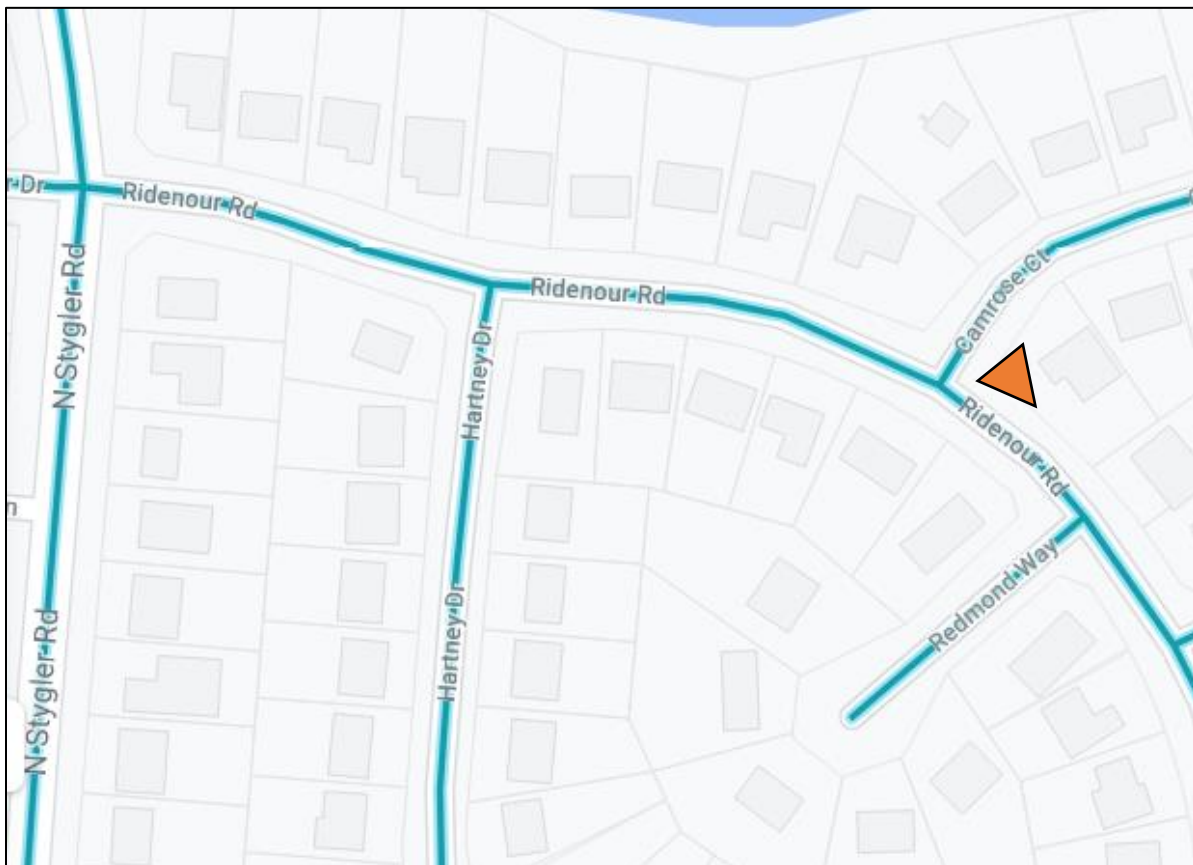
Survey Dates: 09-13-21 to 10-05-21

Survey Reason: Resident request for speed mitigation

Summary –

On 09-13-21, SMND # 1102 was deployed on Ridenour Road in the area of Camrose Court. The SMND recorded the speed of 21,823 vehicles (combined northwest and southeast bound traffic). Of those, 8,115, or 37%, were traveling in excess of the posted speed limit and 13,708, or almost 63%, were traveling below the speed limit. The average speed was 23.3 MPH. The 85th percentile speed was 28 MPH, meaning that 85% of the vehicles were traveling at a speed of 28 MPH or less.

Two hundred and forty-eight vehicles were traveling in excess of 35 MPH, accounting for 1% of the total count (21,823) and 3% of the over-limit count (8115). Conversely, 97% of vehicles traveling above the speed limit were going between 26 and 35 MPH. The survey results demonstrate that the presence of the SMND was an effective mitigation measure. There was substantial compliance with the posted speed limit during the deployment period and few excessive speed violations.



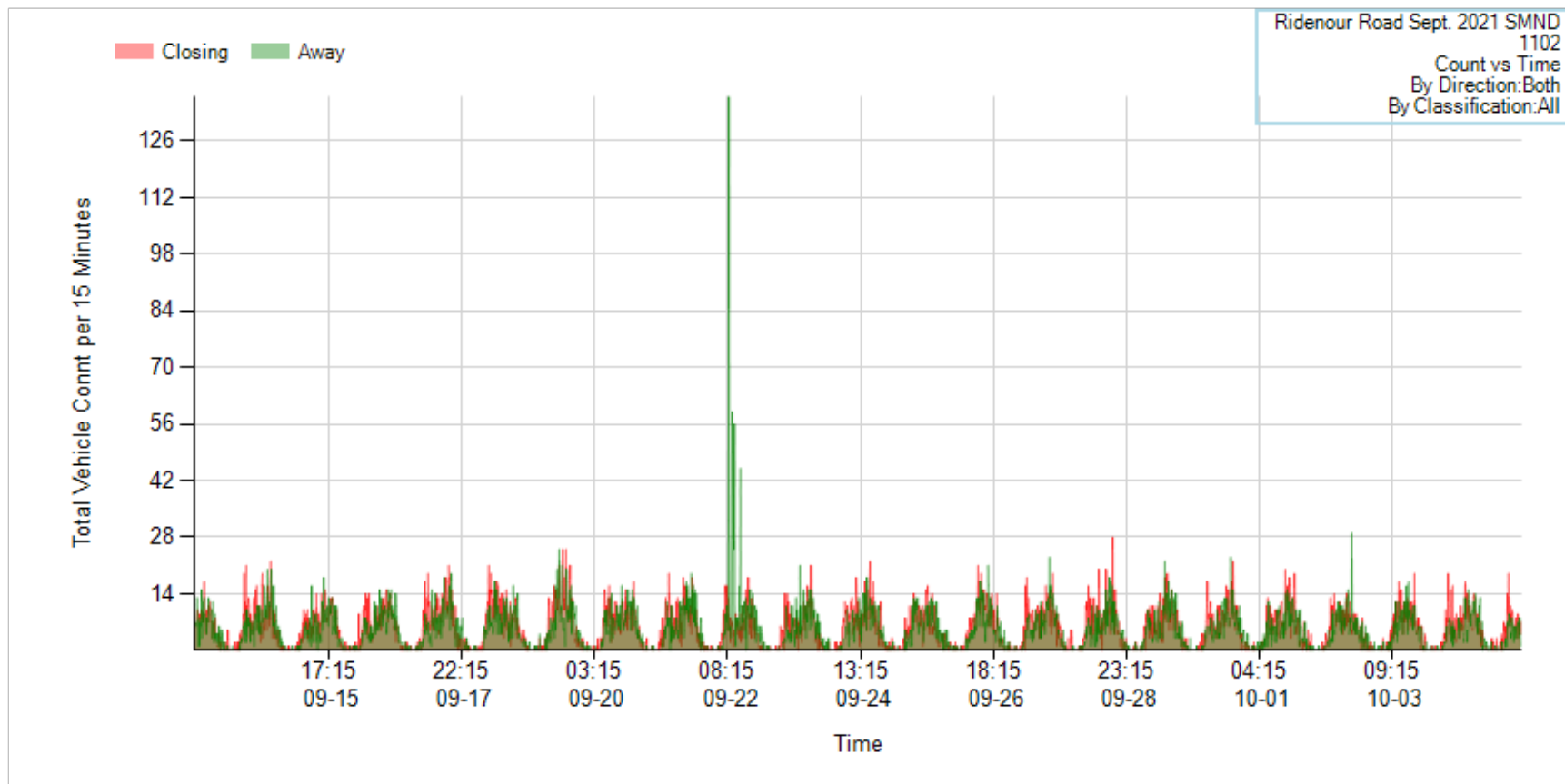


GAHANNA DIVISION OF POLICE

RIDENOUR ROAD - SEPTEMBER 2021 SPEED SURVEY



Count vs. Time



Survey Name	Ridenour Road Sept. 2021	Speed Unit	Miles/Hour	Average Speed	23.3	MPH	Total Volume	21823	100%
Start Date	2021-09-13	Speed Limit	25	Max Speed	55	MPH	Over Limit Count	8115	37.2%
Stop Date	2021-10-05			Min Speed	10	MPH	Under Limit Count	13708	62.8%
				85th Percentile	28	MPH	Over Threshold Count	248	1%
				10 MPH Pace	19 - 28	MPH	In Pace Count	14916	68.3%

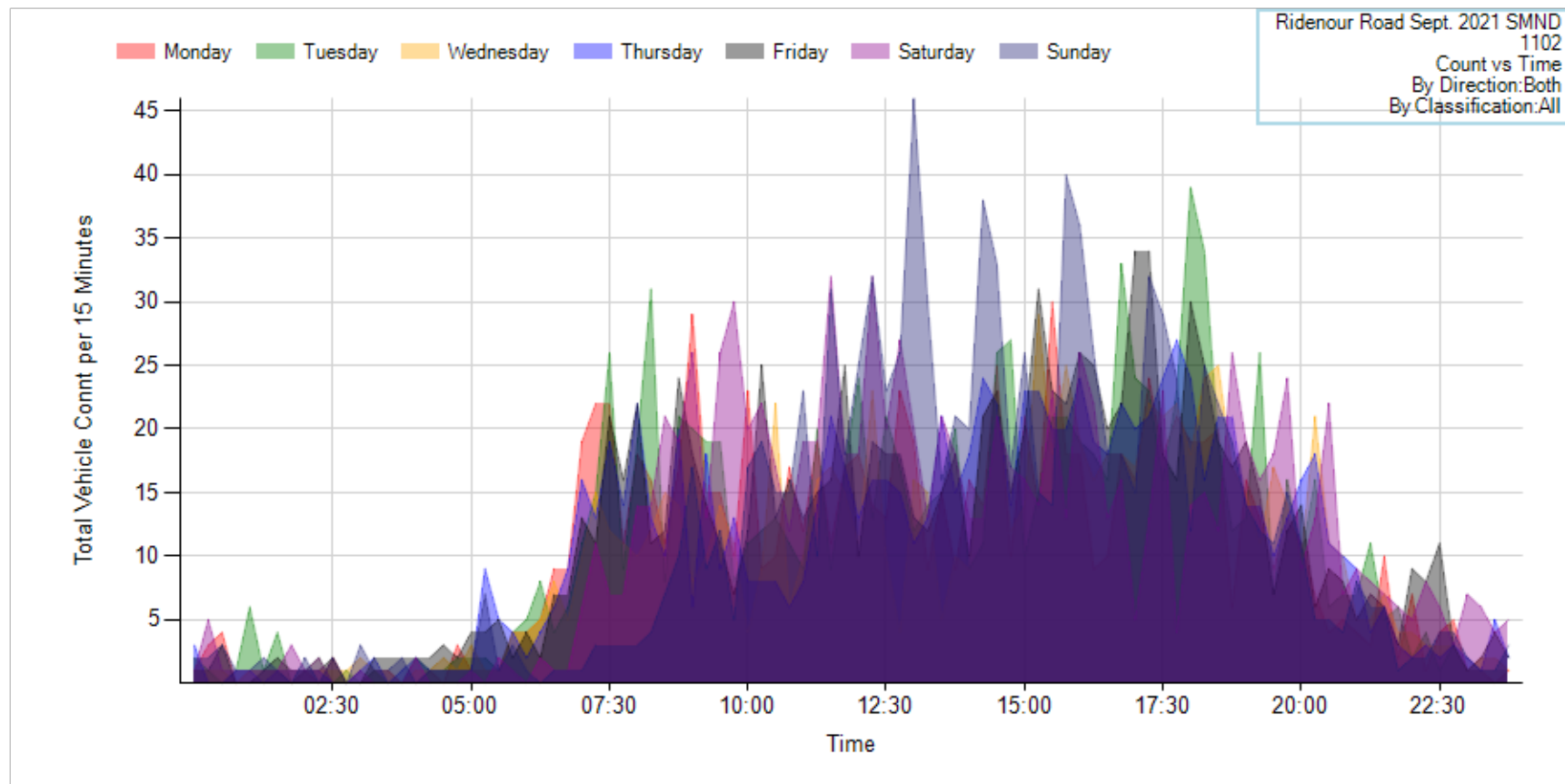


GAHANNA DIVISION OF POLICE

RIDENOUR ROAD - SEPTEMBER 2021 SPEED SURVEY



Weekly Count vs. Time



Survey Name	Ridenour Road Sept. 2021 Speed Unit		Miles/Hour	Average Speed	23.3	MPH	Total Volume	21823	100%
Start Date	2021-09-13	Speed Limit	25	Max Speed	55	MPH	Over Limit Count	8115	37.2%
Stop Date	2021-10-05			Min Speed	10	MPH	Under Limit Count	13708	62.8%
				85th Percentile	28	MPH	Over Threshold Count	248	1%
				10 MPH Pace	19 - 28	MPH	In Pace Count	14916	68.3%

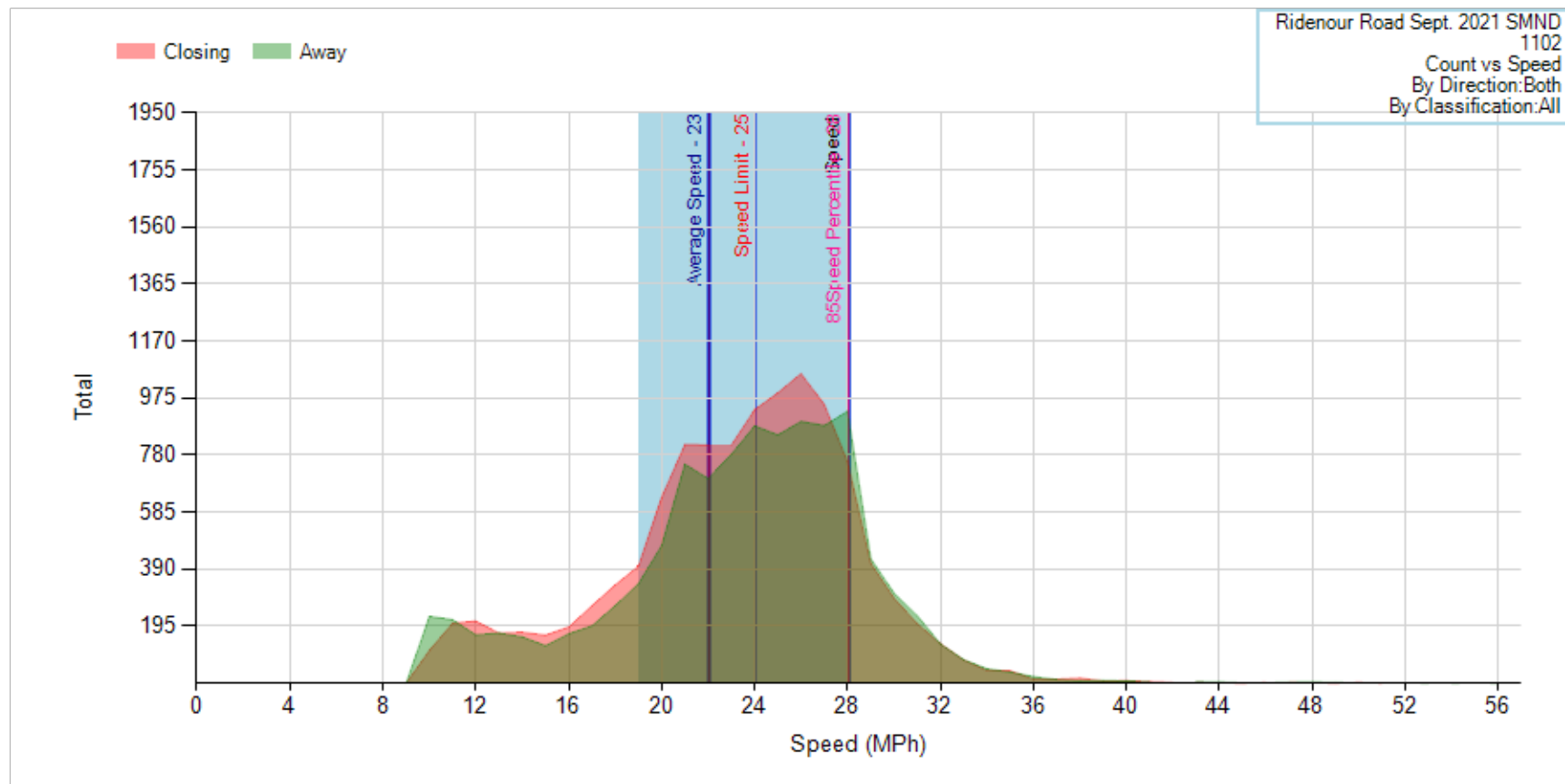


GAHANNA DIVISION OF POLICE

RIDENOUR ROAD - SEPTEMBER 2021 SPEED SURVEY



Count vs. Speed



Survey Name	Ridenour Road Sept. 2021 Speed Unit		Miles/Hour	Average Speed	23.3	MPH	Total Volume	21823	100%
Start Date	2021-09-13	Speed Limit	25	Max Speed	55	MPH	Over Limit Count	8115	37.2%
Stop Date	2021-10-05			Min Speed	10	MPH	Under Limit Count	13708	62.8%
				85th Percentile	28	MPH	Over Threshold Count	248	1%
				10 MPH Pace	19 - 28	MPH	In Pace Count	14916	68.3%

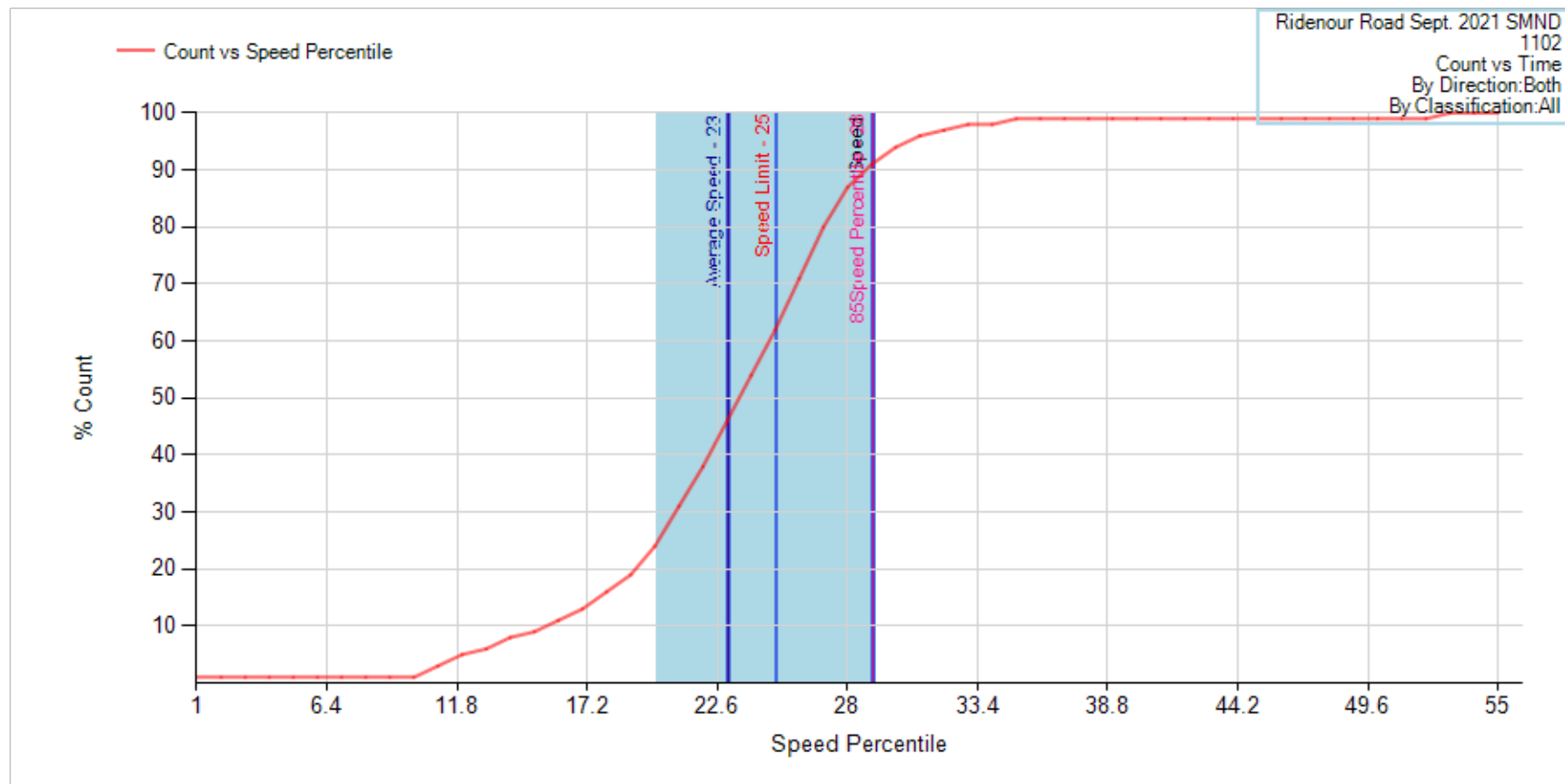


GAHANNA DIVISION OF POLICE

RIDENOUR ROAD - SEPTEMBER 2021 SPEED SURVEY



Percentile Chart



Survey Name	Ridenour Road Sept. 2021		Speed Unit	Miles/Hour	Average Speed	23.3	MPH	Total Volume	21823	100%
Start Date	2021-09-13	Speed Limit	25	Max Speed	55	MPH	Over Limit Count	8115	37.2%	
Stop Date	2021-10-05			Min Speed	10	MPH	Under Limit Count	13708	62.8%	
				85th Percentile	28	MPH	Over Threshold Count	248	1%	
				10 MPH Pace	19 - 28	MPH	In Pace Count	14916	68.3%	

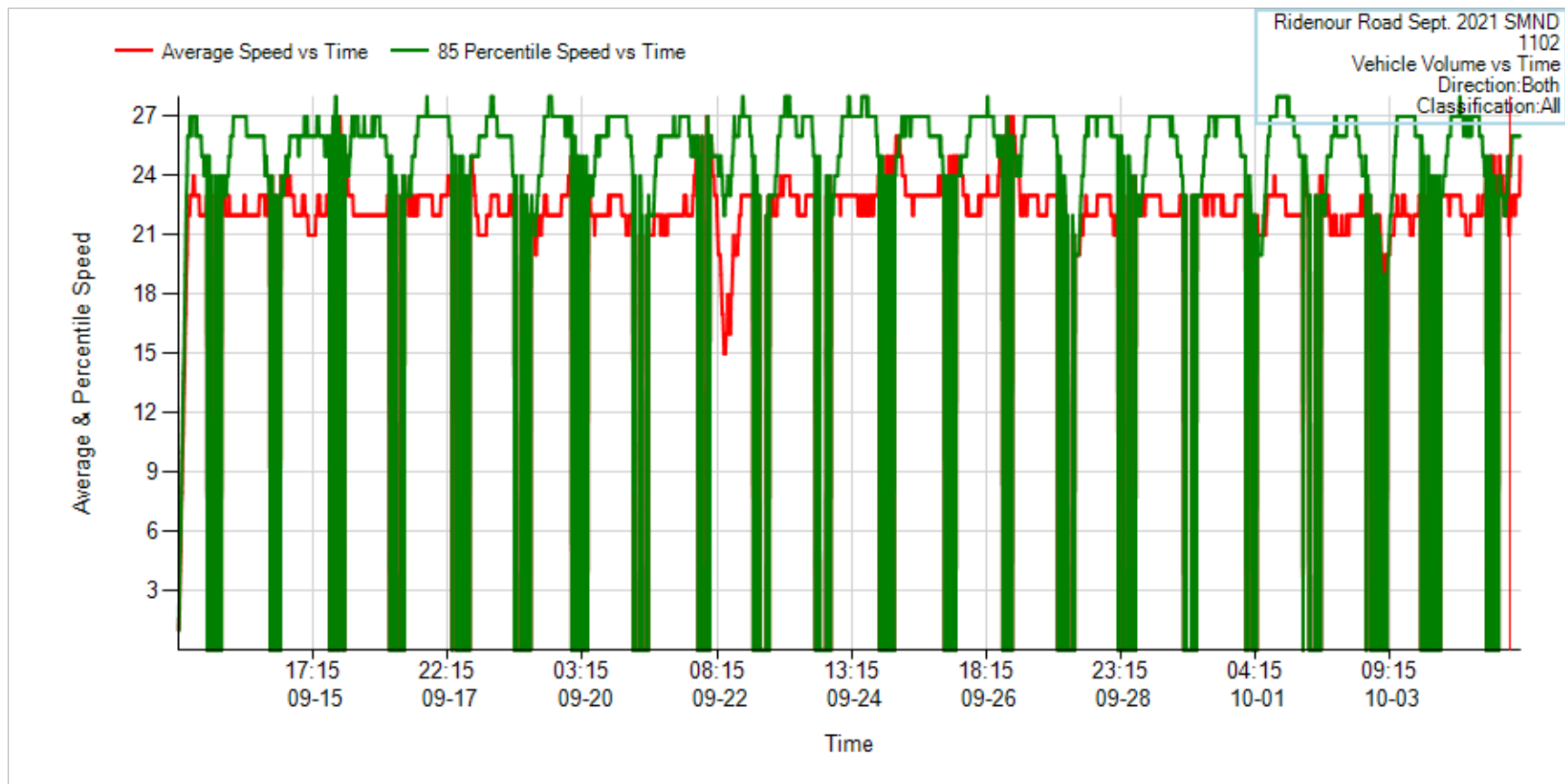


GAHANNA DIVISION OF POLICE

RIDENOUR ROAD - SEPTEMBER 2021 SPEED SURVEY



Average Speed vs. Time



Survey Name	Ridenour Road Sept. 2021 Speed Unit		Miles/Hour	Average Speed	23.3	MPH	Total Volume	21823	100%
Start Date	2021-09-13	Speed Limit	25	Max Speed	55	MPH	Over Limit Count	8115	37.2%
Stop Date	2021-10-05			Min Speed	10	MPH	Under Limit Count	13708	62.8%
				85th Percentile	28	MPH	Over Threshold Count	248	1%
				10 MPH Pace	19 - 28	MPH	In Pace Count	14916	68.3%

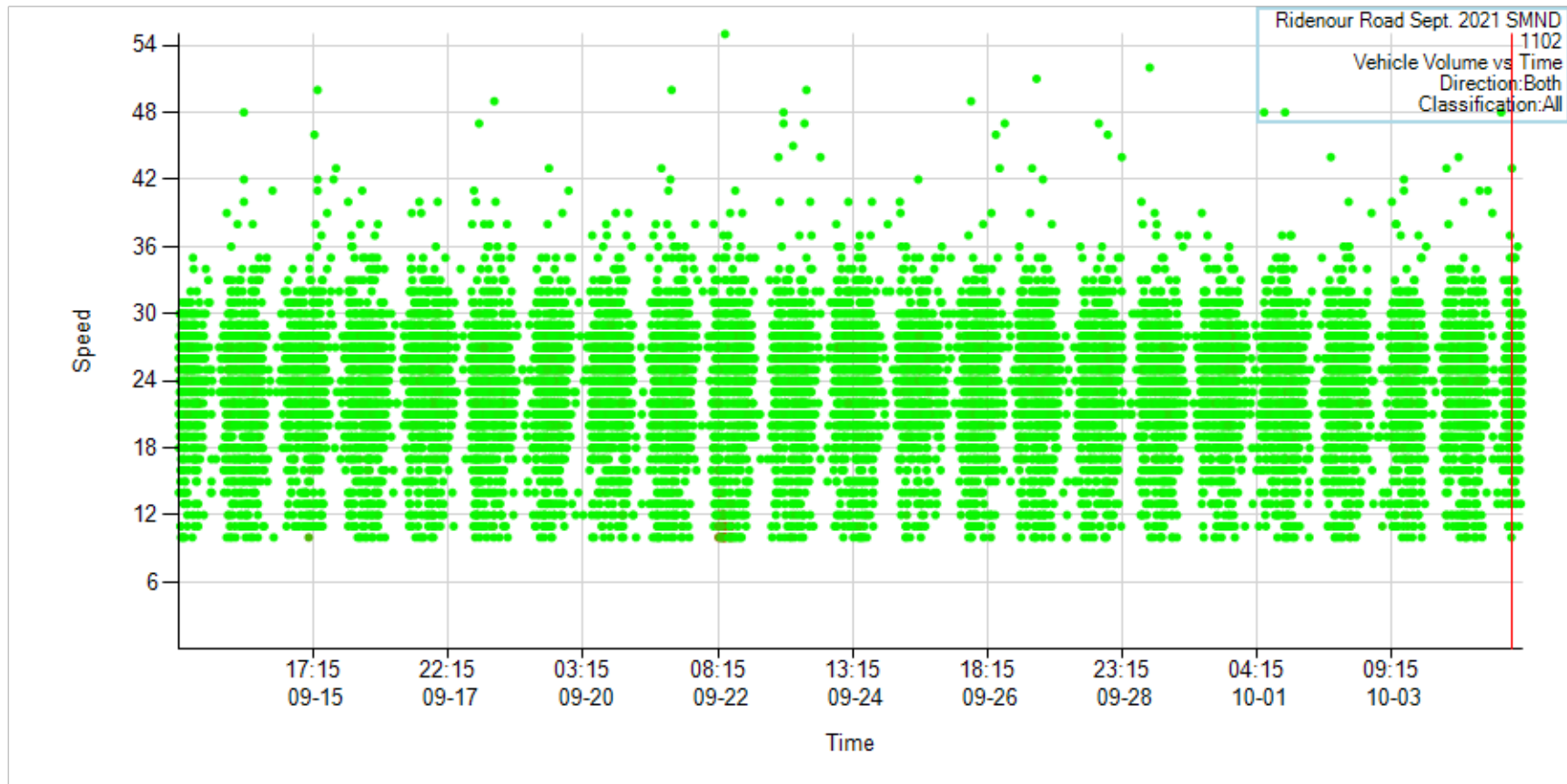


GAHANNA DIVISION OF POLICE

RIDENOUR ROAD - SEPTEMBER 2021 SPEED SURVEY



Speed vs. Time Bubble Chart



Survey Name	Ridenour Road Sept. 2021		Speed Unit	Miles/Hour	Average Speed	23.3	MPH	Total Volume	21823	100%
Start Date	2021-09-13	Speed Limit	25	Max Speed	55	MPH	Over Limit Count	8115	37.2%	
Stop Date	2021-10-05			Min Speed	10	MPH	Under Limit Count	13708	62.8%	
				85th Percentile	28	MPH	Over Threshold Count	248	1%	
				10 MPH Pace	19 - 28	MPH	In Pace Count	14916	68.3%	

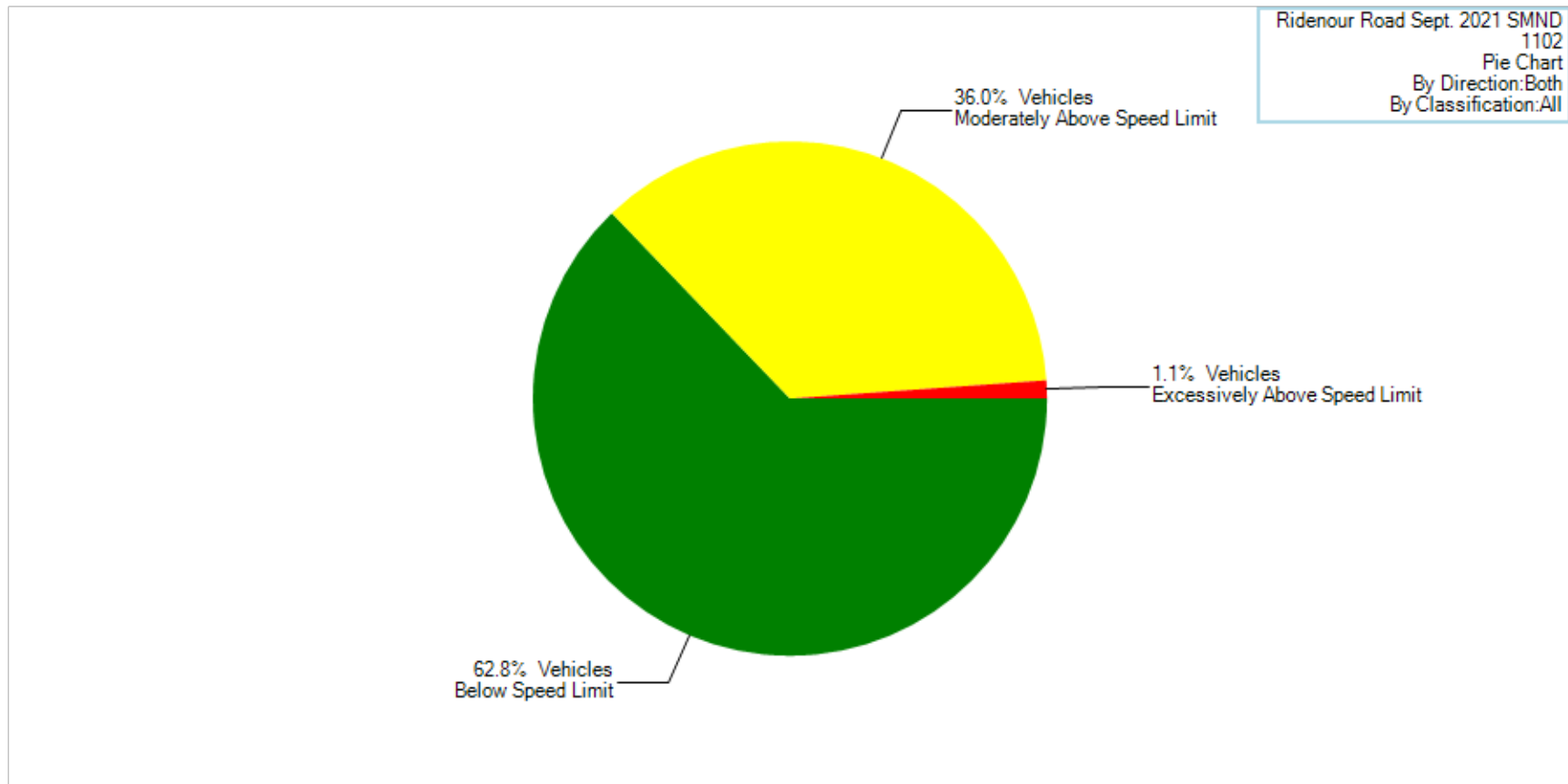


GAHANNA DIVISION OF POLICE

RIDENOUR ROAD - SEPTEMBER 2021 SPEED SURVEY



Enforcement



Survey Name	Ridenour Road Sept. 2021		Speed Unit	Miles/Hour	Average Speed	23.3	MPH	Total Volume	21823	100%
Start Date	2021-09-13	Speed Limit	25	Max Speed	55	MPH	Over Limit Count	8115	37.2%	
Stop Date	2021-10-05			Min Speed	10	MPH	Under Limit Count	13708	62.8%	
				85th Percentile	28	MPH	Over Threshold Count	248	1%	
				10 MPH Pace	19 - 28	MPH	In Pace Count	14916	68.3%	

GAHANNA DIVISION OF POLICE

RIDENOUR ROAD - SEPTEMBER 2021 SPEED SURVEY

Survey Name	Ridenour Road Sept. 2021 S...	Location	950 Ridenour Road,Gahanna,...	Speed Unit	Miles/Hour
Start	2021-09-13 12:15	Traffic Direction	Undefined	Speed Limit	25
Stop	2021-10-05 12:36	Zone	Normal	Min Speed Threshold	10
Operator	000	Min Following Time	0.0	Max Speed Threshold	120
Survey Direction	Both	Time Resolution	1	Speed Resolution	1

Total Vehicle Connt	21823	100%	Average Speed	23.3	MPH	In Pace Count	14916	68%
Under Limit Count	13708	62%	Minimum Speed	10	MPH	10 mph Pace	19 - 28	MPH
Over Limit Count	8115	38%	Maximum Speed	55	MPH	Standard Deviation	5	MPH
10 Over Limit Count	248	1%	85Speed Percentile	28	MPH	Average Speed Over Limit	28.3	MPH



Survey Report Quick Guide/Reference

Over Threshold Count

The default threshold (amount over the posted speed limit) is 10 MPH. The **Over Threshold Count** is the number of vehicles traveling in excess of the selected threshold. For example, if the threshold is set at the 10 MPH default, this would indicate the number of vehicles (within the Total Volume) that were traveling at 10 MPH over the posted limited.

Count vs. Time

The **Count vs Time Chart** shows the number of vehicles per unit of time traveling on the monitored roadway.

Weekly Count vs. Time Chart

The **Weekly Count vs. Time Chart** mode shows the vehicle count per day over a 7-day period. If the survey period extends beyond one 7- day week, the values of each overlapped week day will be the average values for those overlapped week days.

Count vs. Speed Chart

The **Count vs. Speed Chart** selection shows the total vehicle count for each speed group. The size of the speed group can be set by the operator (**Speed Resolution** selection in the **Analysis Control**).

Percentile Chart

The **Percentile Chart** shows the cumulative percentage of vehicles that are at or below a given speed

Average Speed vs. Time Chart

The **Average Speed vs. Time Chart** shows the average and the 85th Percentile Speeds of the vehicles over time.

Speed vs. Time Bubble Chart

The **Speed vs. Time Bubble Chart** plots both vehicle speed and volume against time. The size of the bubble represents the number of cars at a particular speed group at a particular time. This chart is useful in showing traffic bunching.

Average Speed

The average speed of all vehicles

85Speed Percentile

The speed at which 85% of the traffic was traveling **at or less than**. The 85th percentile is considered to be a key metric because it is generally considered to representative of prevailing traffic conditions (the speed vehicles on the roadway are going most of the time).